BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of Work:- Improvements & asphalting to Kalahasinagar Govt School Road & Right Side Area in Dasarahalli Ward No.15

			Est. Cost Rs				19.97	Lakhs	
Sl.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. KSRB 2-1.2: – do – Hard soil(P.5, I. No..2.2 PW, P & IWTD -SR 2013-14)	Cum							
	Govt School Road BWSSB Road Cutting		1	200.00	1.20	0.40	96.00		
	6th cross		1	100.75	1.20	0.40	48.36		
	7th cross		1	100.00	1.20	0.40	48.00		
	Basic Rate	164.00					192.36	177.12	34071.00
	Add Area Weightage 8%	13.12							
	Total	177.12							
2	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. Close graded granular sub-base material as per 400-1 For Grading- I Material(P.167/I.20.41 PW, P & IWTD -SR 2013-14)	Cum							
	Govt School Road BWSSB Road Cutting		1	200.00	1.20	0.15	36.00		
	6th cross		1	100.75	1.20	0.15	18.14		
	7th cross		1	100.00	1.20	0.15	18.00		
	Basic Rate	982.00					72.14	1060.56	76503.00
	Add Area Weightage 8%	78.56							
	Total	1060.56							
3	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.167/I.20.18 PW, P & IWTD - SR 2013-14)	Cum							
	Govt School Road BWSSB Road Cutting		1	200.00	1.20	0.20	48.00		
	6th cross		1	100.75	1.20	0.20	24.18		
	7th cross		1	100.00	1.20	0.20	24.00		
	Basic Rate	1038.00					96.18	1121.04	107822.00
	Add Area Weightage 8%	83.04							
	Total	1121.04							

4	KSI 3 M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 Page No. 175/ Item No. 21.6/ PWD SR 2013-14	Sqm							
	Govt School Road BWSSB Road Cutting		1	200.00	1.20		240.00		
	6th cross		1	100.75	1.20		120.90		
	7th cross		1	100.00	1.20		120.00		
	Basic Rate	41.00					480.90	44.28	21294.00
	Add Area Weightage 8%	3.28							
	Total	44.28							
5	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm							
	Govt School Road		1	200.00	7.00		1400.00		
	6th cross		1	100.75	6.90		695.18		
	7th cross		1	100.00	6.90		690.00		
							2785.18		
	Less Primer Coat Area						480.90		
	Basic Rate	2.40					2304.28	2.59	5973.00
	Add Area Weightage 8%	0.19							
	Total	2.59							
6	Filling Pot-holes and Patch Repairs with Bituminous Concrete, 40 mm KSRRB M3000-5. Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides and base of excavation as per clause 500.3, back filling the pot holes with hot bituminous material as per clause 500.4, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2 complete as per specifications MORTH Specification No. 3004.2	Sqm							
	add 5% of the area vide ItemNo.5						2304.28		
							115.21		
	Basic Rate	380.00					115.21	410.40	47284.00
	Add Area Weightage 8%	30.40							
	Total	410.40							
7	KSRRB 500-7. Providing and applying tack coat on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 176/ Item No. 21.7/ PWD SR 2013-14	Sqm							
	Govt School Road		1	200.00	7.00		1400.00		
	6th cross		1	100.75	6.90		695.18		
	7th cross		1	100.00	6.90		690.00		
	Basic Rate	16.60					2785.18	17.93	49933.00

	Add Area Weightage 8%	1.33							
	Total	**17.93**							
8	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 /75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH /Chapter 5. With 60/70 grade bitumen. Page No. 176/ Item No. 21.11.2/ PWD SR 2013-14	Cum							
	Govt School Road For Profile correction		1	200.00	2.10	0.050	**21.00**		
	Basic Rate	6235.00					**21.00**	6733.80	**141410.00**
	Add Area Weightage 8%	498.80							
	Total	**6733.80**							
9	KSRRB M500-19. Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 50930-45mm compacted thickness (Grading II) with 6% Bitumen 60/70 (P.179/I.21.22.2) PW, P & IWTD - SR 2013-14)	Cum							
	Govt School Road		1	200.00	7.00	0.04	56.00		
	6th cross		1	100.75	6.90	0.04	**27.81**		
	7th cross		1	100.00	6.90	0.04	**27.60**		
	Basic Rate	10604.00					**111.41**	11452.32	**1275869.00**
	Add Area Weightage 8%	848.32							
	Total	**11452.32**							
10	Carriage of Mixed Material Page No.186 Note PWD SR Of 13-14 - Qty vide Itemn No.8+9						132.41	52.11	**6899.73**
	1st to 2nd KM	**5.75**							
	2nd-5th KM	**16.50**							
	5th-10th KM	**26.00**							

		48.25							
	Area Weightage 8%	3.86							
	Total	**52.11**							
15	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading **Page No. 150 Item No. 17.1 PWD SR 2013-14**	Cum					192.36		150502.00
			Qty Vide Item No. 1*0.10				652.30	78.24	51033.00
	2 x 1.28 x 4 Kmtrs	10.24							
		62.20							
	Basic Rate	**72.44**							
	Add Area Weightage 8%	5.80							
	Total	**78.24**							213854.00
16	For Quality Control Report Charges1% of the Estimate Cost								19970.00
17	Miscellaneous and UnforessenCharges							1037.00	1175.00
								Total	1997000.00

(Rupees. Ninteen Lakhs Ninty Seven Thousand Only)

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PW,P & IWTD -SR-2013-14
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

Assistant Engineer
Ward-15

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

AE
JE ID 815 13-14 18-2-14
19-97 Lakhs Chulaay
Lakhs Ninty Seven Thousand Only

P-183
Sl no: 815

EE/DD/TS/724/13-14 18/02/2014
19.97 (Rupees Ninteen Lakhs Ninty Seven thousand only)

Name of the work:- Improvements & Asphalting to Kalahasi nagar Govt school Road & Right side area in Dasarahalli ward no-15